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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/844,420	04/26/2001	Ian Michael Charles Shand.	CISCP207	1366
22434	7590	12/07/2005	EXAMINER	
BEYER WEAVER & THOMAS LLP			BLAIR, DOUGLAS B	
P.O. BOX 70250			ART UNIT	PAPER NUMBER
OAKLAND, CA 94612-0250			2142	

DATE MAILED: 12/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/844,420	SHAND ET AL.	
	Examiner	Art Unit	
	Douglas B. Blair	2142	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 02 August 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-50 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-50 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input checked="" type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.
2. Claims 1-50 are currently pending in the application.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
4. Claims 1, 19, 26, and 44 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
5. Claims 1, 19, 26, and 44 recite the limitation "the neighboring node" in the limitation with the phrase "an acknowledgement of receipt of the first message by the neighboring node" in each claim. Specifically, the preamble of each claim states that the invention is operable on one or more neighboring nodes so therefore it is unclear which neighboring node is being referred to. There is insufficient antecedent basis for this limitation in these claims.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1-9, 12-34 and 37-50 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent Number 6,721,899 to Navaez-Guarnieri et al..

8. As to claim 1, Navaez-Guarnieri teaches a method for a network node connected to one or more neighboring nodes in a network to acquire link state information from one or more neighboring nodes, the method comprising: transmitting a first message from the network node to a first neighboring node, the first message referencing dummy link state information that includes link state information not referenced in a link state database included in the first neighboring node (col. 4, lines 16-44, the term dummy information is interpreted based on the applicant's specification at page 16, lines 10-14); receiving a second message from the first neighboring node, the second message referencing dummy link state information, the second message corresponding to an acknowledgement of receipt of the first message by the first neighboring node (col. 4, lines 16-44, Navaez-Guarnieri uses IS-IS messages and acknowledgements are inherent to IS-IS messaging systems); receiving one or more link state packets from the neighboring node, the one or more link state packets corresponding to network link state information (col. 4, lines 16-44).

9. As to claim 2, Navaez-Guarnieri teaches the method of claim 1, wherein the network node is ignoring the second message (col. 4, lines 16-44).

10. As to claim 3, Navaez-Guarnieri teaches the method of claim 1, wherein the first and second messages are IS-IS messages (col. 1, lines 11-17).

11. As to claim 4, Navaez-Guarnieri teaches the method of claim 1, wherein the first message is a Complete Sequence Numbers Packet (col. 4, lines 16-44).

12. As to claim 5, Navaez-Guarnieri teaches the method of claim 1, wherein the second message is a Partial Sequence Numbers Packet (col. 4, lines 16-44).

13. As to claim 6, Navaez-Guarnieri teaches the method of claim 1, further comprising transmitting a third message from the network node to a second neighboring node, the third message referencing dummy link state information (col. 4, lines 16-44).

14. As to claim 7, Navaez-Guarnieri teaches the method of claim 6, further comprising transmitting a fourth message from the network node to the first neighboring node, the fourth message containing no reference to dummy link state information and directing the first neighboring node to transmit link state information not referenced in the fourth message to the network node (col. 4, lines 16-44).

15. As to claim 8, Navaez-Guarnieri teaches the method of claim 1, further comprising receiving link state information and populating a link state database with the link state information (col. 4, lines 16-44).

16. As to claim 9, Navaez-Guarnieri teaches the method of claim 1, further comprising using the link state information to generate a routing table (col. 4, lines 16-44).

17. As to claim 12, Navaez-Guarnieri teaches a method for a network node in an network to request link state information from one or more neighboring nodes, the neighboring nodes coupled with the network node, the method comprising: maintaining in persistent storage information identifying one or more neighboring nodes (col. 4, lines 16-44); restarting the routing control protocol, wherein restarting the routing control protocol clears a link state

database (col. 4, lines 16-44); transmitting heartbeat messages to one or more neighboring nodes, the heartbeat message containing information from persistent storage identifying the one or more neighboring nodes to indicate that the network node is alive (heartbeat messages are inherent to IS-IS messages, see section 1.1); transmitting a first link state information request message to a first neighboring node, the first link state information request message referencing dummy link state information that includes link state information not referenced in a link state database included in the first neighboring node (col. 4, lines 16-44); and transmitting the second link state information request message to a second neighboring node, the second link state information request message referencing link state information (col. 4, lines 16-44).

18. As to claim 13, Navaez-Guarnieri teaches the method of claim 12, further comprising receiving a partial link state information request message from the second neighboring node, the partial link state information request message referencing dummy link state information, wherein receipt of the partial link state information request message acknowledges that the second neighboring node received the second link state information request message (col. 4, lines 16-44).

19. As to claim 14, Navaez-Guarnieri teaches the method of claim 12, wherein transmitting the second link state information request message occurs after transmitting the first link state information request message (col. 4, lines 16-44).

20. As to claim 15, Navaez-Guarnieri teaches the method of claim 12, wherein the first message is a Hello message (col. 4, lines 16-44).

21. As to claim 16, Navaez-Guarnieri teaches the method of claim 12 wherein the second message is a complete sequence numbers packet (col. 4, lines 16-44).

22. As to claim 17, Navaez-Guarnieri teaches the method of claim 12, wherein a message being Partial Sequence Numbers Packet (col. 4, lines 16-44).

23. As to claim 18, Navaez-Guarnieri teaches the method of claim 12, further comprising generating a routing table with the link state packets from one or more neighboring nodes, wherein the routing table is generated when no link state packets have been received for a predetermined period of time (col. 4, lines 16-44).

24. As to claims 19-25 and 44-50, they have similar limitations to claims 1-7 and are rejected for the same reasons as claims 1-7.

25. As to claims 26-34, they have similar limitations to claims 1-9 and are rejected for the same reasons as claims 1-9.

26. Claims 1-9, 12-34 and 37-50 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent Number 6,820,134 to Zinin et al..

The applied reference has a common assignee and inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention “by another,” or by an appropriate showing under 37 CFR 1.131.

27. As to claim 1, Zinin teaches a method for a network node connected to one or more neighboring nodes in a network to acquire link state information from one or more neighboring nodes, the method comprising: transmitting a first message from the network node to a first neighboring node, the first message referencing dummy link state information that includes link

state information not referenced in a link state database included in the first neighboring node (col. 7, lines 32-51, the term dummy information is interpreted based on the applicant's specification at page 16, lines 10-14); receiving a second message from the first neighboring node, the second message referencing dummy link state information, the second message corresponding to an acknowledgement of receipt of the first message by the first neighboring node (col. 8, lines 14-25); receiving one or more link state packets form the neighboring node, the one or more link state packets corresponding to network link state information (col. 7, lines 32-51).

28. As to claim 2, Zinin teaches the method of claim 1, wherein the network node is ignoring the second message (col. 7, line 66-col. 8, line 13).

29. As to claim 3, Zinin teaches the method of claim 1, wherein the first and second messages are IS-IS messages (col. 7, lines 20-31).

30. As to claim 4, Zinin teaches the method of claim 1, wherein the first message is a Complete Sequence Numbers Packet (col. 7, lines 20-31).

31. As to claim 5, Zinin teaches the method of claim 1, wherein the second message is a Partial Sequence Numbers Packet (col. 7, lines 20-31).

32. As to claim 6, Zinin teaches the method of claim 1, further comprising transmitting a third message form the network node to a second neighboring node, the third message referencing dummy link state information (col. 7, lines 5-19).

33. As to claim 7, Zinin teaches the method of claim 6, further comprising transmitting a fourth message from the network node to the first neighboring node, the fourth message containing no reference to dummy link state information and directing the first neighboring node

to transmit link state information not reference in the fourth message to the network node (col. 7, lines 32-51).

34. As to claim 8, Zinin teaches the method of claim 1, further comprising receiving link state information and populating a link state database with the link state information (col. 7, lines 32-51).

35. As to claim 9, Zinin teaches the method of claim 1, further comprising using the link state information to generate a routing table (col. 7, lines 32-51).

36. As to claim 12, Zinin teaches a method for a network node in an network to request link state information from one or more neighboring nodes, the neighboring nodes coupled with the network node, the method comprising: maintaining in persistent storage information identifying one or more neighboring nodes (col. 7, lines 32-51); restarting the routing control protocol, wherein restarting the routing control protocol clears a link state database (col. 7, lines 32-51); transmitting heartbeat messages to one or more neighboring nodes, the heartbeat message containing information from persistent storage identifying the one or more neighboring nodes to indicate that the network node is alive (col. 7, lines 20-31, Zinin teaches the use of IS-IS messages and heartbeat messages are inherent to IS-IS messages, see section 1.1); transmitting a first link state information request message to a first neighboring node, the first link state information request message referencing dummy link state information that includes link state information not referenced in a link state database included in the first neighboring node (col. 7, lines 32-51); and transmitting the second link state information request message to a second neighboring node, the second link state information request message referencing link state information.

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37. As to claim 13, Zinin teaches the method of claim 12, further comprising receiving a partial link state information request message from the second neighboring node, the partial link state information request message referencing dummy link state information, wherein receipt of the partial link state information request message acknowledges that the second neighboring node received the second link state information request message (col. 7, lines 32-51).

38. As to claim 14, Zinin teaches the method of claim 12, wherein transmitting the second link state information request message occurs after transmitting the first link state information request message (col. 7, lines 32-51).

39. As to claim 15, Zinin teaches the method of claim 12, wherein the first message is a Hello message (col. 7, lines 20-31).

40. As to claim 16, Zinin teaches the method of claim 12 wherein the second message is a complete sequence numbers packet (col. 7, lines 32-51).

41. As to claim 17, Zinin teaches the method of claim 12, wherein a message being Partial Sequence Numbers Packet (col. 7, lines 32-51).

42. As to claim 18, Zinin teaches the method of claim 12, further comprising generating a routing table with the link state packets from one or more neighboring nodes, wherein the routing table is generated when no link state packets have been received for a predetermined period of time (col. 8, lines 14-25).

43. As to claims 19-25 and 44-50, they have similar limitations to claims 1-7 and are rejected for the same reasons as claims 1-7.

44. As to claims 26-34, they have similar limitations to claims 1-9 and are rejected for the same reasons as claims 1-9.

Allowable Subject Matter

45. Claims 10-11 and 35-36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

46. Applicant's arguments with respect to claims 1-50 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

47. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas B. Blair whose telephone number is 571-272-3893. The examiner can normally be reached on 8:30am-5pm Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on 571-272-3868. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Douglas Blair
DBB

Andrew Caldwell
ANDREW CALDWELL
SUPERVISORY PATENT EXAMINER